IN THE CLAIMS:

Please enter the attached listing of claims into the application. This listing of claims replaces all prior listing of claims in the application.

LISTING OF CLAIMS

- 1. (Currently Amended) An isolated polypeptide comprising the amino acid sequence as set forth in SEQ ID NO:5 Y (Trp/Phe) Xaa₄ Xaa₂ Xaa₃ Xaa₄ Xaa₅ (Trp/Phe) Xaa₆ Xaa₇ (Trp/Phe) Z, wherein: Y, which may or may not be present, is a peptidic structure containing at least one cysteine residue and having the formula (Xaa)_n, wherein Xaa is any amino acid residue and n is an integer from 1 to 20; Z, which may or may not be present, is a peptidic structure containing at least one cysteine residue and having the formula (Xaa)_n, wherein Xaa is any amino acid residue and n is an integer from 1 to 20; Xaa₄ is any amino acid; Xaa₂ is any amino acid; Xaa₆ is any amino acid; and Xaa₇ is any amino acid; wherein at least two of the amino acid residues of Xaa₄ through Xaa₅ are positively charged.
- 2. (Currently Amended) An isolated polypeptide <u>consisting of emprising</u> the amino acid sequence <u>as set forth in SEQ ID NO:5</u> Y (Trp/Phe) Xaa₄ Xaa₂ Xaa₃ Xaa₄ Xaa₅ (Trp/Phe) Xaa₆ Xaa₇ Xaa₈ (Trp/Phe) Z, wherein: Y, which may or may not be present, is a peptidic structure containing at least one cysteine residue and having the formula (Xaa)_n, wherein Xaa is any amino acid residue and n is an integer from 1 to 20; Z, which may or may not be present, is a peptidic structure containing at least one cysteine residue and having the formula (Xaa)_n, wherein Xaa is any amino acid residue and n is an integer from 1 to 20; wherein Xaa₄ is any amino acid; Xaa₂ is any amino acid; Xaa₃ is any amino acid; Xaa₄ is any amino acid; Xaa₅ is any amino acid; wherein at least two of the amino acid residues of Xaa₄ through Xaa₅ are positively charged.

- 3. (Currently Amended) The isolated polypeptide of claim 1 or 2, wherein the cysteine in the Y peptidic structure and the cysteine in the Z peptidic structure are intramolecularly cross linked via a disulfide bond.
- 4. (Cancelled)
- 5. (Currently Amended) The isolated polypeptide of claims 1 or 2, wherein n is an integer further comprising from 1 to 15 amino acid at the N- or C-terminus of the polypeptide comprising SEQ ID NO:5.
- 6. (Currently Amended) The isolated polypeptide of claims 1 or 2, wherein n is an integer further comprising from 1 to 10 amino acid at the N- or C-terminus of the polypeptide comprising SEQ ID NO:5.
- 7. (Currently Amended) The isolated polypeptide of claims 1 or 2, wherein n is an integer further comprising from 1 to 5 amino acid at the N- or C-terminus of the polypeptide comprising SEQ ID NO:5.
- 8. (Currently Amended) The isolated polypeptide of claims 1 or 2, wherein n is an integer further comprising from 1 to 3 amino acid at the N- or C-terminus of the polypeptide comprising SEQ ID NO:5.
- 9. (Currently Amended) An The isolated polypeptide selected from the group consisting of: a) a polypeptide comprising of claim 8, wherein the polypeptide comprises the amino acid sequence set forth in SEQ ID NO:2, 3, 4, 5 or 6; and b) a polypeptide consisting or consists of the amino acid sequence of SEQ ID NO:2, 3, 4, 5 or 6.
- 10. (Original) The polypeptide of claims 1, 2 or 9, wherein the polypeptide binds to the amyloid form of the $A\beta$ peptide.

- 11. (Original) The polypeptide of claims 1, 2 or 9, further comprising a therapeutic or diagnostic compound conjugated to the polypeptide.
- 12. (Original) A composition useful for treating or diagnosing Alzheimer's disease in a mammal comprising a pharmaceutically or diagnostically acceptable carrier and a therapeutically- or diagnostically-effective amount of a polypeptide as claimed in claims 1, 2 or 9.
- 13. (Withdrawn) A method of treating or diagnosing Alzheimer's disease in a mammal in need of such treatment, which comprises administering to the mammal a therapeutically- or diagnostically-effective amount of a composition as claimed in claim 12.
- 14. (Withdrawn) An isolated nucleic acid sequence encoding the polypeptide of claims 1, 2 or 9.
- 15. (Withdrawn) A vector comprising the nucleic acid sequence of claim 14.
- 16. (Withdrawn) The vector of claim 15, wherein the vector is an expression vector.
- 17. (Withdrawn) A host cell comprising the vector of claim 16.
- 18. (Original) The host cell of claim 17, wherein the host cell is a eukaryotic cell.
- 19. (Original) A hybrid molecule comprising: a) a peptide set forth in claim 1, 2 or 9, that specifically interacts with the amyloid form of the Aβ peptide; and b) a scaffold molecule comprising a diagnostic or therapeutic reagent.
- 20. (Original) The hybrid molecule of claim 19, wherein the diagnostic or therapeutic reagent comprises a polypeptide, small molecule or compound.

- 21. (Original) The hybrid molecule of claim 20, wherein the polypeptide comprises all or a sufficient portion of a protein selected from the group consisting of antibodies, enzymes, chromogenic proteins, fluorescent proteins and fragments thereof.
- 22. (Original) The hybrid molecule of claim 20, wherein the therapeutic agent is a neuroprotective agent that renders amyloid plaques less toxic or inhibits plaque formation.
- 23. (Original) The hybrid molecule of claim 20, wherein the diagnostic reagent specifically images amyloid plaques in neuronal tissue.
- 24. (Withdrawn) A method of treating or diagnosing a neurodegenerative disease associated with aberrant plaque formation, the method comprising administering a hybrid molecule of claim 20 to a subject having, or predisposed to having, the disease.
- 25. (Withdrawn) The method as in claim 19, wherein said peptide binds specifically to the amyloid form of the $A\beta_{1-40}$ peptide in plaques of Alzheimer's patients.
- 26. (Withdrawn) An anti-idiotype antibody that specifically binds to a polypeptide of claim 1, 2 or 9.